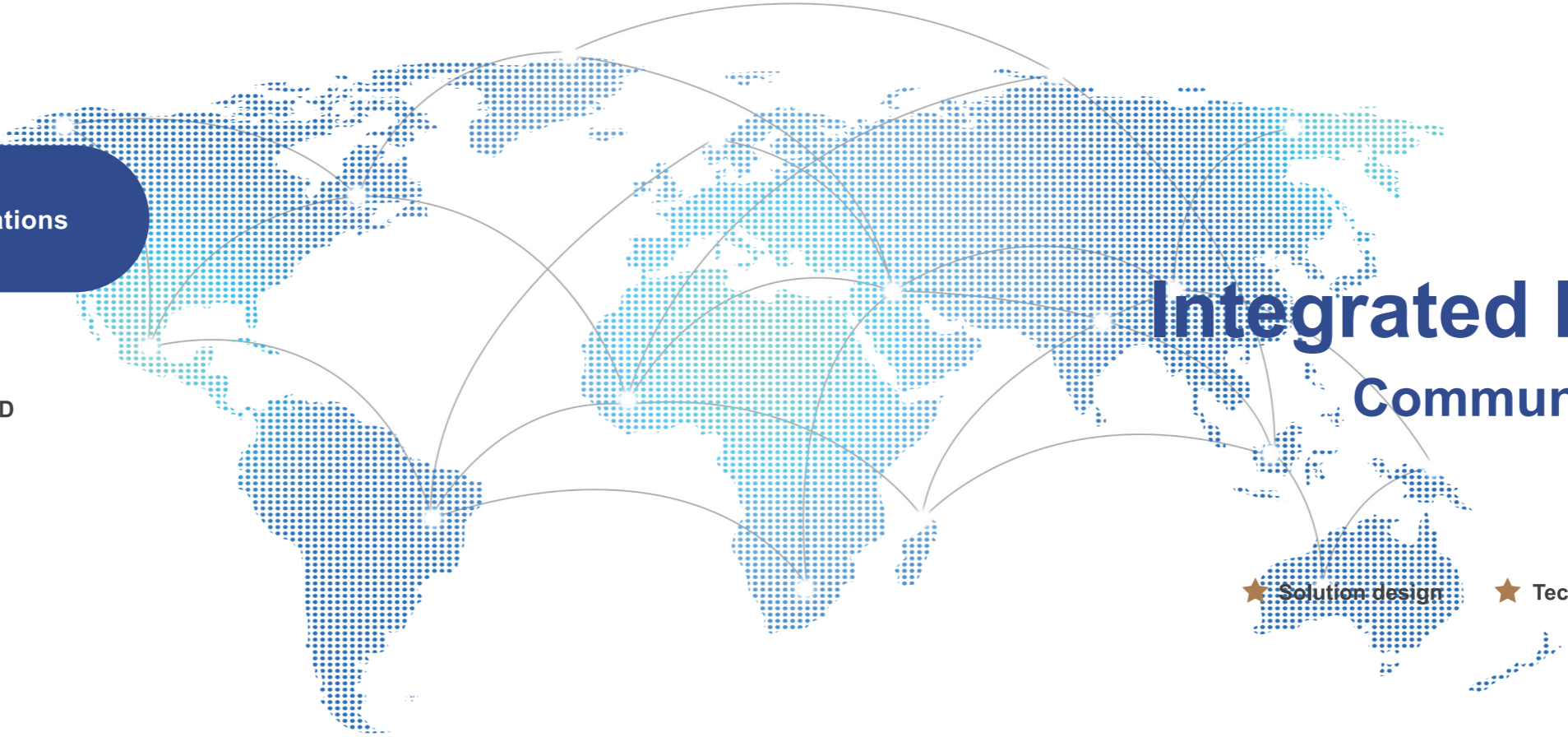


A Safe Voice in Global Communications



J&R TECHNOLOGY LTD



Integrated Dispatching Communication Solutions

- ★ Solution design
- ★ Technical support
- ★ After-sales service

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System Introduction

The J&R integrated dispatching communication system mainly consists of core dispatching host, voice gateway, telephone terminals and broadcasting speakers. The dispatching host is the core equipment of the system and provides the most basic command and dispatch business support for the entire system. In order to meet the individual needs of users, J&R also provides users with various peripheral business system services such as audio and video recording, call center, code conversion, and video conferencing.

Over the past decade, the company has accumulated extensive experience and expertise. Taking into account characteristics of outdoor, high humidity, high noise, and explosive environments, J&R has developed a series of communication products and specialized solutions based on analog, VoIP, and wireless communication technologies. These products and solutions are designed to be weatherproof, explosion-proof, vandal-proof, and anti-noise.

To further enhance the functionalities of the system, J&R has independently developed a variety of SIP terminals, including IP phones, IP multimedia phones, IP audio-video intercom terminals, SIP Android soft terminals, SIP PC soft terminals, and command and dispatch software.

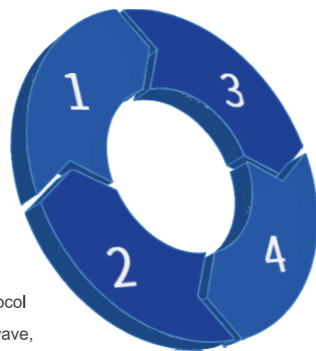
System Advantages

High Reliability

We select mature, reliable, and highly stable equipment, supporting dual-machine hot backup and remote disaster recovery backup to provide customers with a highly stable system.

Advancedness

The system adopts an advanced architecture based on the SIP protocol and "cloud" computing framework, while integrating LTE, wifi, shortwave, ultra-shortwave and other wireless access transmission methods.



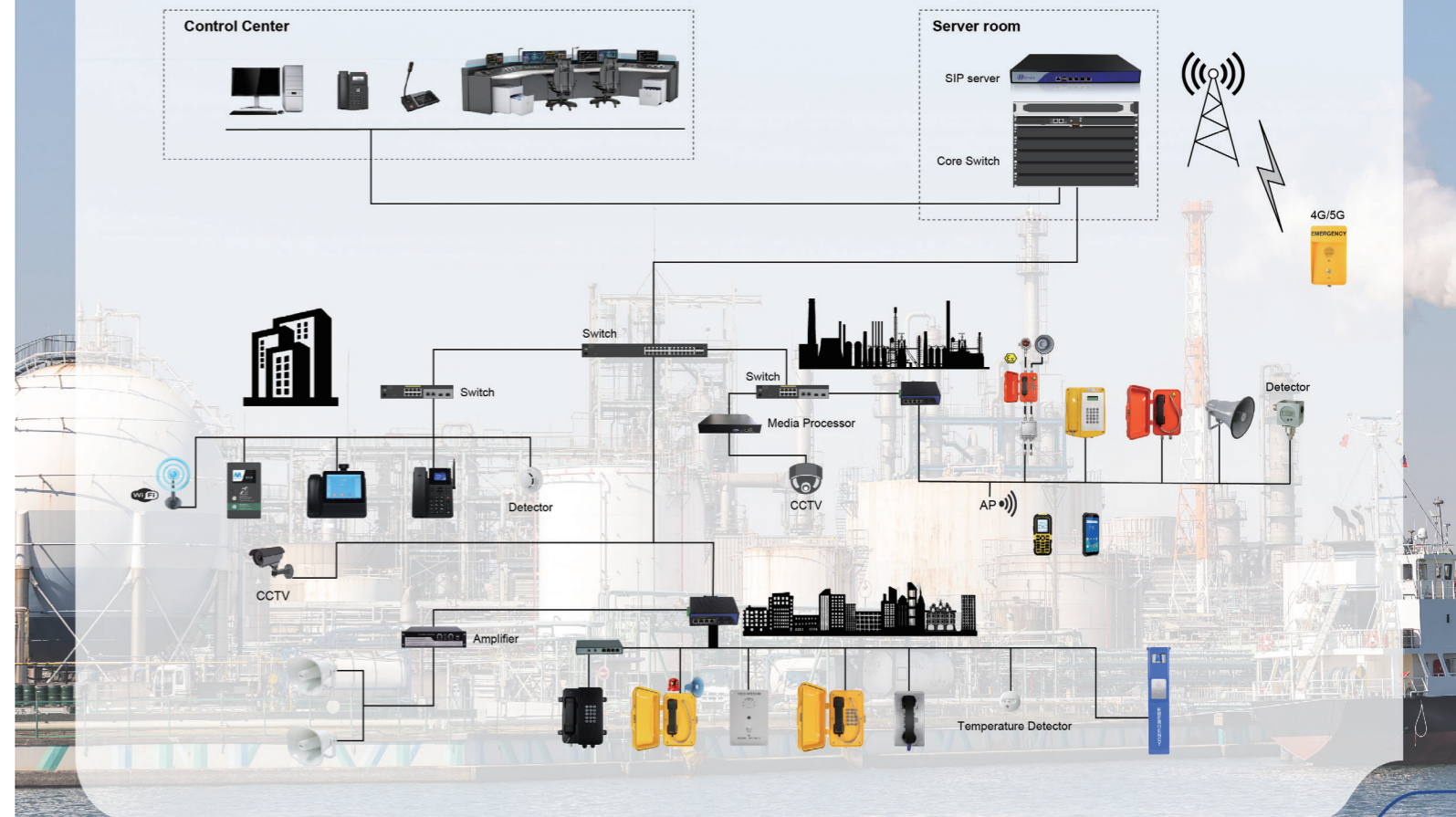
Practicality

The system is designed to meet the requirements of practical dispatching and emergency operations to the fullest extent. It emphasizes practicality while simplifying the design, and fully caters to the users' personalized needs.

Scalability

Taking into account the actual requirements and future development needs, the system has a flexible scalability that allows integration with PSTN, large-scale softswitch, and other business systems.

System Topology Diagram



System Function Introduction

Basic Voice Functions

Making and receiving calls, Negotiated transfer of calls, Unconditional call transfer, Call park, Incoming call pick-up, Call transfer, One-number access, Busy transfer, Do Not Disturb, Group ringing, Three-way calling, Telephone conference, Voicemail, Call bill query.

Audio Dispatching Function

The platform provides powerful voice command and dispatch functions. The dispatch console has functions such as operator control, information display, emergency call instructions, waiting queue status, group call monitoring, and conference monitoring instructions. The scope of dispatching can be from the command center to each terminal on site and various units and departments. The dispatching function is divided into three parts: outgoing calls, incoming calls, and conferences.

Call out function

- Click-to-call - Group call
- Free call - Automatic redial for busy numbers
- Forced interjection
- Forced disconnection
- Hotline dialing

Call in function

The system supports 6-way unimpeded alarm communication, and supports incoming call prompts, caller ID display, call answering, call transfer, conference joining, extension status monitoring, call records, call hold, and hotline answering.

Conference function

The dispatcher can invite and hold conferences for the connected SIP terminals or external terminals through the dispatcher console.

System Function Introduction

Integrated Broadcast Intercom Function

Integrate with the telephone dispatching system, telephone (or mobile phone) dial-up broadcast, support single-point broadcasting, broadcasting to an entire area, specific zones or groups. Real-time audio collection and broadcasting, scheduled broadcasting, timed broadcasting, SIP broadcast terminal directly calls dispatcher, SIP broadcast terminal alarm, SIP broadcast terminal group intercom, event-triggered broadcasting.

Video Scheduling Function

The system provides a wealth of fixed and mobile video command and dispatch functions. Commanders can click to video calls, video return, video forwarding, and video Group sending and other video command and dispatch operations to fixed or mobile command and dispatch terminals.

Video Surveillance: Real-time monitoring of the environmental status in the area where the devices are located.

Video Capture: Capturing the current monitoring screen.

Video Recording: Recording the current monitoring screen.

Playback: Play back video records.

Video Linkage: When the terminal is connected to the dispatch console, the video from the camera associated with the terminal automatically pops up.

Pan-Tilt-Zoom Control: The video page allows control of camera angles (requires camera support).

Multi-Brand Integration: Cameras that support the ONVIF protocol can be integrated into the system.

Video Separation: Separating the video from the dispatch console to achieve dual-screen display (only available in the C/S client).

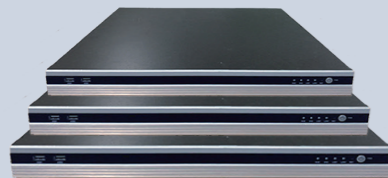
Disconnected and reconnected: After the camera is disconnected from the network/power supply and restored, click on the camera to reconnect.

Video Conferencing

The system supports video conferencing with a maximum of 16 parties. The access terminals can be smart Android terminals, multimedia phones, professional video conference room terminals, and ordinary IP monitoring probes. The highest definition of the venue is 1080P, and the playback effect is 60 frames per second, and the movement is smooth. The three main conference functions of video wall, document presentation, and audio-visual sharing realize quick convening of meetings and efficient remote communication.

Product Introduction - Core Equipment

JR-TNS Series SIP Dispatch Host



- Supports 60 users, 30 concurrent calls
- Supports 120 users, 60 concurrent calls
- Supports 240 users, 100 concurrent calls
- Supports 500 users, 200 concurrent calls

Supports communication between the center and extensions, extensions and center, as well as extensions to extensions. The product's software and hardware have excellent scalability, facilitating future system expansion and upgrades to meet current business needs and accommodate future business development for a certain period of time. The central dispatch console is connected to the core dispatch IP server via an Ethernet port. Supports mainstream voice encoding standards such as G.711, G.723, G.729.

JR-TNS Series SIP Dispatch Host



- Supports up to 1000 users
- Maximum of 200 concurrent calls
- A control console
- A 250GB solid-state drive
- 1U rack mounting

Supports two way calls, arbitrary paging, and group conferences
Intercom: two-way communication, zone conferences, interrupting, breaking up, monitoring, and recording. Broadcast: instant broadcasting, music broadcasting, announcement broadcasting, and text broadcasting.
Equipped with a 10-point capacitive touch screen, A+ grade industrial LCD screen, integrated retractable keyboard and mouse, and open interfaces for third-party platforms, providing a more convenient operation experience.

Product Introduction - Access Equipment

JR-FOA-4S Industrial Switch



- Full gigabit access
- Gigabit optical port uplink
- 1U/19-inch cabinet installation

It has L2+ network management functions, supports IPV4 management and static routing forwarding, supports complete security protection mechanisms, complete ACL/QoS policies and rich VLAN functions, making it easy to manage and maintain. The switch supports flexible operation and maintenance management, and can be configured with various application services through Web, CLI, SNMP, Telnet and other network management methods, port flow control, VLAN division, QoS and other functions.

JR-WG Series Analog Voice Gateway



- Support SNMPv2
- 2 10/100M RJ45 interfaces
- 1 RS232 interface

Professional IP voice gateway equipment, using a 1U high 19-inch standard rack-mounted design, using a CPU+DSP hardware architecture, built-in stable and reliable embedded operating system, and it has extremely strong large-capacity call processing capabilities. It supports complete fault detection and alarm functions, low power consumption and high integration. It supports three-level lightning protection standards and overcurrent and overvoltage protection for telephone POTS interfaces.

JR RoIP Intercom Gateway



- 2 SIP lines
- 2 10/100M RJ45 interfaces
- 1 DC interface x1

The RoIP gateway integrating the intercom module and the SIP module can realize the interconnection between analog intercom, digital intercom and SIP communication terminals.
The RoIP gateway is compact, portable, powerful, compatible with the SIP protocol, integrates UHF band intercom signals, and is compatible with most mainstream analog/DMRII digital intercoms.

Product Introduction - Control Room Equipment

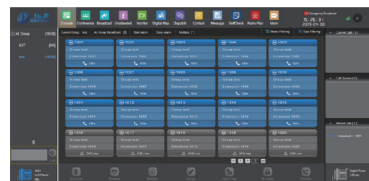
JR-DS-01 Touchscreen Console



720*336*85mm
Galvanized steel plate
Aluminum alloy 21.5-inch

LCD Screen, 128GB SSD Solid state drive
Desktop and wall-mounted integrated chassis with aluminum alloy frame
The JR-DS-01 dispatching console serves as the operating platform of the dispatch system and is another important component of the dispatch system.
By using the dispatching console system software, it can communicate with the dispatch host to perform functions such as forced disconnection, forced insertion, broadcasting, and alarm reception.

JR-SW-V01 Integrated Software



Telephone, Alarm
Intercom, Broadcasting
Video, Maps

The IP integrated dispatch system, JR-SW-V01, incorporates functional modules such as communication server, broadcasting server, recording server, conference server, and management server. It provides a unified visual dispatch console interface that allows users to perform operations such as telephone communication, intercom, broadcasting, video, alarm handling, and remote control, all on a single electronic map.

JR-XS-02 Mobile Desktop Phone



309*214*187mm
20 SIP lines
Ethernet-powered
3 LCD screens
Intelligent DDS keys

The JR-XS-02 is a mobile desktop dispatch phone equipped with a gooseneck microphone and supports high-definition hands-free communication. It features intelligent programmable keys that can be customized for one-touch calling, enhancing communication efficiency. It is compatible with the standard SIP protocol and can be used as a management host for monitoring centers and executive offices. It allows for calling, two-way intercom, monitoring/surveillance, and broadcasting within the managed area, enabling businesses to maximize their daily operational efficiency and emergency response capabilities.

Product Introduction - Terminal Equipment

JR-XS-01 IP Desktop Phone



169*186*175 mm
128x48 black and white dot matrix screen with backlight
2 SIP accounts

The JR-XS-01 is a network phone designed for enterprise use. It supports Gigabit Ethernet and Power over Ethernet PoE (X1SP) for convenient installation and setup. It delivers high-definition voice quality with support for G.722 voice codec, ensuring crystal-clear audio for various applications such as IP telephony and multi-party conferences. The phone also supports additional features like EHS wireless headset connectivity, expanding its functionality and versatility. It can meet different enterprise application scenarios and provide high-quality user experience.

JREX106 Series Explosion-proof Telephones



280*190 *124mm
IP66 Protection level
Intrinsically safe Ex "ib" certification
Temperature classification: T6

The JREX100 series explosion-proof phones are fully contained in a weatherproof enclosure with corrosion-resistant (GRP-Glass fiber Reinforced Plastics), providing complete protection against dust and moisture, resulting in a highly reliable product with high MTBF. The JREX100 series explosion-proof telephones are designed for use in petroleum, chemical, power stations, armed forces and heavy industries that require very reliable telephones under harsh conditions.

JR100 Series Waterproof Telephone



246 *339 *126 mm
IP67 protection level
Analog, SIP, 4G phone
External warning light and speaker available

It adopts a corrosion-resistant and anti-vandal aluminum alloy waterproof shell with a magnetic door cover, which can completely prevent dust and moisture from entering, thereby extending the product's service life and improving its reliability and stability. This series of phones is suitable for subways/metro, tunnels, ports, underground pipe gallery systems, large industrial and mining project dispatch call places, power plants, steel mills, national nature reserves, etc.

Product Introduction - Terminal Equipment

JR200 Series Public Telephone



240*100 *106 mm
Free dialing phone
Hotline telephone
WEB configuration

The JR200 Series phones are fully contained in a corrosion-resistant stainless steel/cold-rolled steel weatherproof housing that provides complete protection against dust and moisture. The shell has a grounding device and is completely electrically isolated from the internal circuit, with a certain electromagnetic shielding effect, and the voice is clear and loud during the call, without whistling back. Armored wire provides additional resistance to vandalism or heavy industrial use.

JR300 Series Hands-free Telephones



230 *160 *55 mm
Hands-free Speed dialing
IP65 protection level
Embedded installation

This video intercom phone has a stainless steel housing and buttons, and a built-in camera, which play a role in waterproof, dust and violence protection. Ideal for subway/rail platforms, parking lots, hospitals, police stations, ATM machines, factories, stadiums, outdoor buildings or public places, etc.

JR-TH Series Soundproof and Noise Reduction Booths



500*680*780mm
Polyethylene plastic structure
High performance polyurethane sound insulation lining
Multiple styles available

The JR-TH series soundproof telephone acoustic hood is made of GRP -Glass fiber Reinforced Plastic and molded with a beautiful appearance and strong applicability. It also takes into account the characteristics of noise resistance, explosion-proof, anti-freeze, anti-corrosion, high temperature resistance, flame retardant, etc. It can be applied to ships, offshore platforms, power plants, power stations, smelting plants, petrochemicals and other high-noise environments, it can reduce ambient noise about 25dB.

Product Introduction - Terminal Equipment

JR-TP Series Column Telephone



2400*436*306 mm
Multiple styles available
Solar charging, optional

JR-TP column telephone series is suitable for highways, railway lines, tunnel exits, parks, and scenic spots. When geological disasters, traffic accidents, vehicle breakdowns, etc. Require help, you can quickly call for help with one button speed dial, allowing the seeker to get help effectively in the shortest time. Made of galvanized steel plate, also available in stainless steel SUS304/SUS316 on demand.

JREX-HSA Broadcast Speaker Series



SIP broadcast speakers
Explosion-proof broadcast speakers
Broadcast sound columns, etc.
15/25/35 W optional

The JREX-HSA broadcast loudspeaker is an independent terminal designed for outdoor environments. It can be installed almost anywhere and is flexible and stable. Supports manual or automatic playback of pre-recorded audio files in response to emergencies. Open standards enable easy integration with network video, access control and VoIP (SIP enabled).

JR-MP Handheld Terminal Series



55.3*77*14 mm
IP68 protection level
5.5-inch capacitive screen
Supports external TF card,
Expandable to 128GB

The mobile phone is specially designed to prevent violent damage. It adopts a sturdy and anti-vandal engineering plastic shell, an anti-disassembly design, and has IP68 high protection performance, which can resist violent damage and climate effects. All electronic components are made of industrial-grade products that are resistant to high and low temperatures, so our phones can still be used normally in extreme temperature environments ranging from 60 degrees to minus 20 degrees.

Communication Solution for Oil & Gas

At present, most petrochemical companies in my country generally adopt a systematic, automated, and visualized production monitoring model. Traditional communication systems are gradually unable to meet the communication needs of the current refined production of the petrochemical industry. Based on the current communication needs and pain points of the petrochemical industry, a set of convenient communication solutions has been tailored for it. Aiming at the communication difficulties in different scenarios of petrochemical enterprises, we provide you with more practical and targeted communication solutions.

Project Reference



A Mitsubishi Chemical plant



A Chemical Plant in Xinjiang



A Power Plant in Gibraltar



A chemical plant in northwest Inner Mongolia

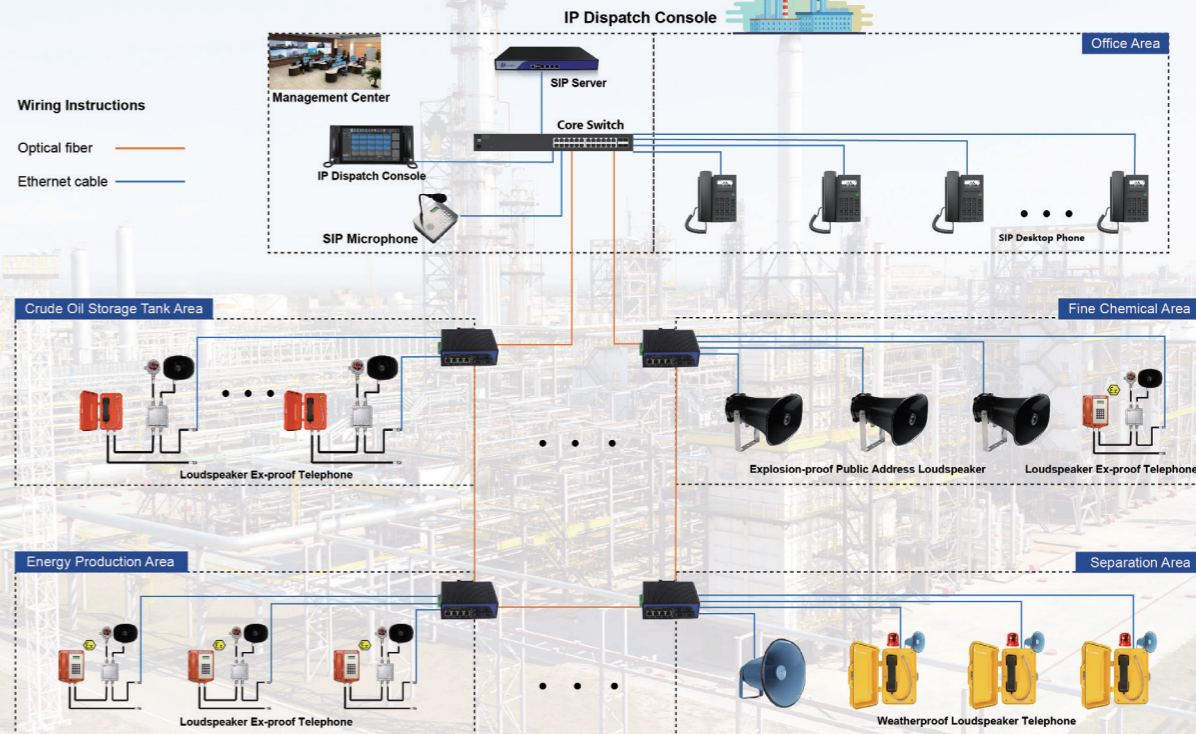
- Districts in the factory are equipped with independent terminal communication equipment such as SIP explosion-proof intercoms and explosion-proof broadcast speakers. In the event of an unexpected situation, you can press a button for help immediately;
- Managers can instantly broadcast emergency broadcasts through broadcast terminals to ensure the safety of on-site personnel;
- Multi-scheme cluster coverage: IP co-channel simulcast cluster, digital DMR/PDT small cluster, digital DMR/PDT large cluster and other cluster solutions can be used according to user needs to ensure basic voice data management, and specially set up emergency communications System, dedicated to private network;

Communication Solution for Oil & Gas

Wiring Instructions

Optical fiber ———

Ethernet cable ———



Communication Solution for Offshore Platforms & Rigs

In recent years, with the increase in global oil demand, the development of this industry is of great significance to the global economy and energy security, but it is also accompanied by risks and safety issues. In the work of oil drilling platforms, the emergency communication system is a vital link, which can help us solve critical situations and ensure work safety. On oil drilling platforms, there are often many encounters between crew members and between crew members and shore communications. Difficulties, and in emergencies, communication failures can lead to extremely dangerous situations.

Project Reference



An offshore oil rig in Dubai



An offshore oil rig in Qatar



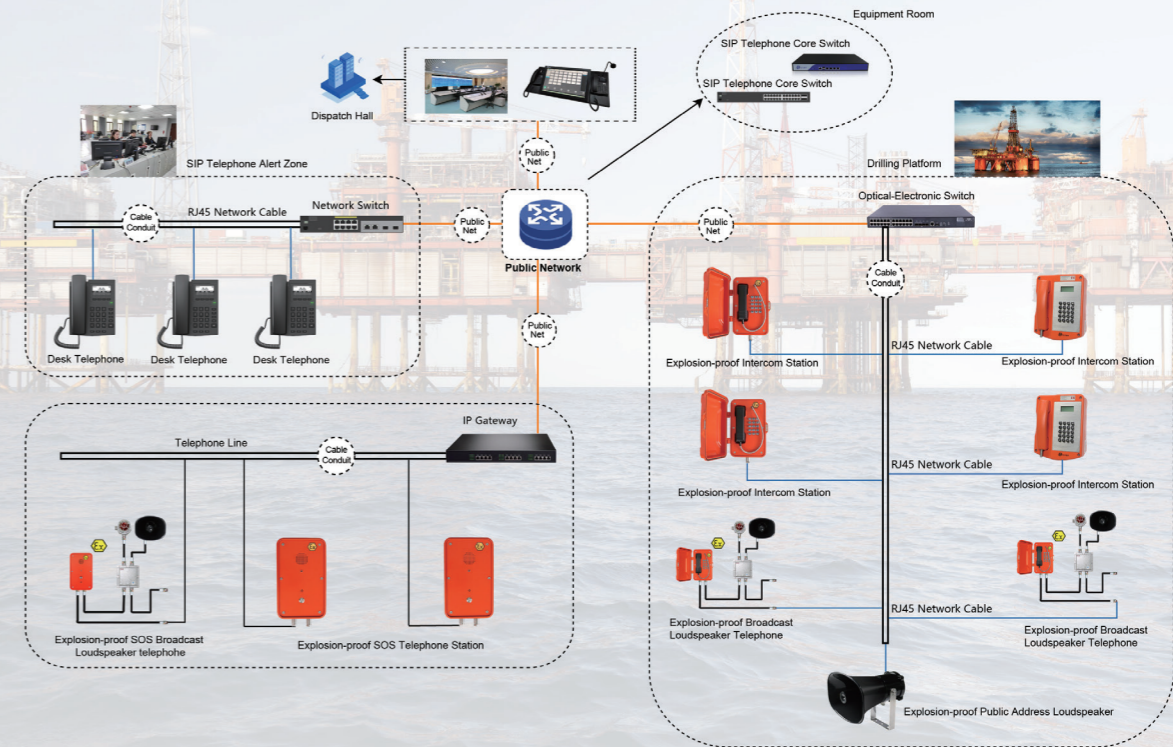
An offshore oil platform in Viet Su, Vietnam



An offshore oil rig in India

- Individual calls, group calls, and all calls: Using digital repeaters or trunking systems, individual calls, group calls, and all calls for all terminals in the network can be implemented, and emergency calls are supported to ensure smooth communication;
- Communication equipment compatibility: It adopts digital trunking technology, is compatible with the original analog network, and provides telephone interconnection functions for interconnection with original wired communication equipment such as amplified intercoms and internal telephones.

Communication Solution for Offshore Platforms & Rigs



★ Communication Solution for Onshore Drilling Rigs



Application feedback from KSA

Application feedback from KSA



Application feedback from Algeria

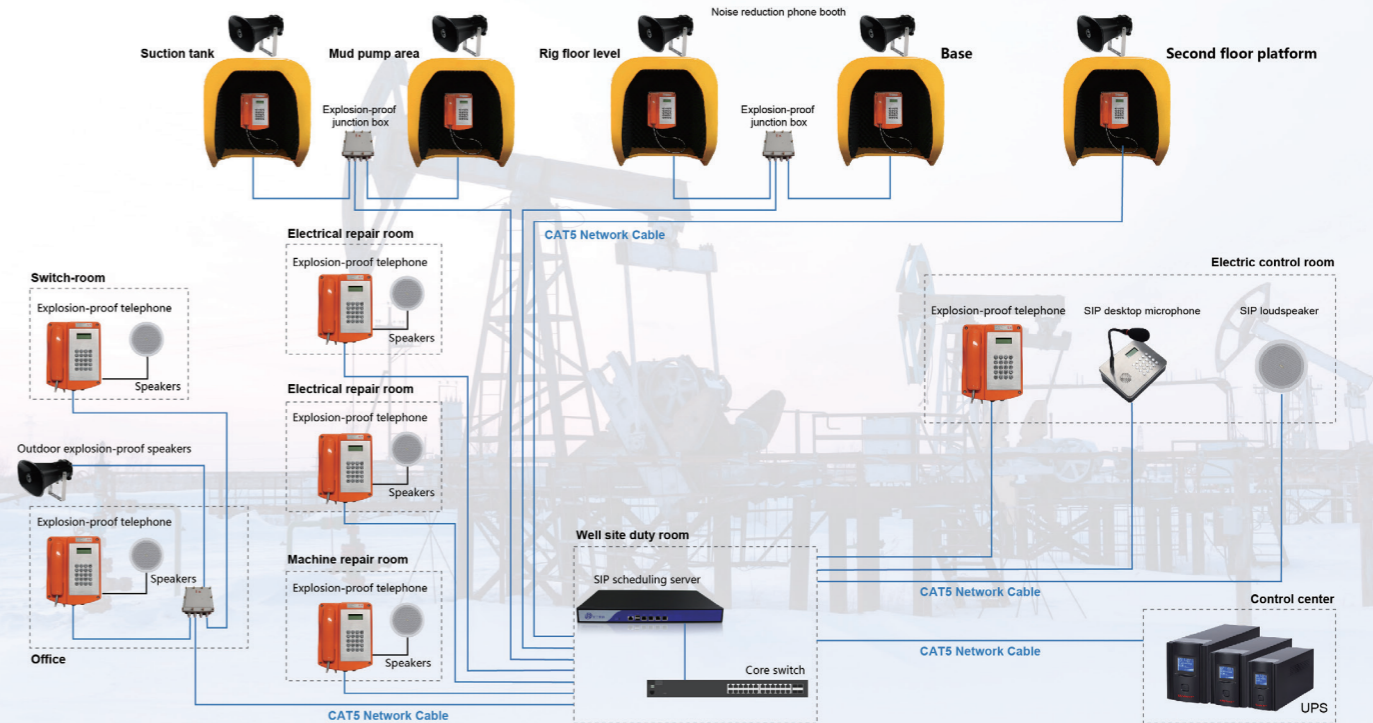
Application feedback from KSA



★ Solution

- At present, electric-driven oil drilling rigs have been widely used. Network architecture is widely used in the communication system of electric-driven drilling rigs. The system has a function that responds to all calls. Each phone has a hands-free call function as needed, which is more convenient to use;
- The driller's room is the communication center of the system. By using the function switch and the explosion-proof adapter, it can realize the conversion between the handle and the microphone for hands-free calls. It can also have the function of full call and point-to-point independent communication with the second floor platform and the drilling rig platform, with noise reduction effect, enabling clear calls in noisy environments.

Communication Solution for Onshore Drilling Rigs



★ Security Solution for Plants and Manufacturing Facilities



A metallurgical plant in Mozambique

A metallurgical plant in Mexico



A steel plant in Indonesia



A metallurgical plant in Mexico

★ Solution

Enterprises such as steel and metallurgical plants have fast production pace, complex process flows, and close connections between upper and lower processes. During production, they often need to communicate with relevant personnel, deal with emergencies, or control operations, which requires high-quality communication and is suitable for extremely harsh conditions. Internal communication system for environmental conditions, taking the metallurgical plant as an example, industrial-grade intercom terminals are set up in each link of the steel production line to ensure that production line workers can communicate effectively and directly;

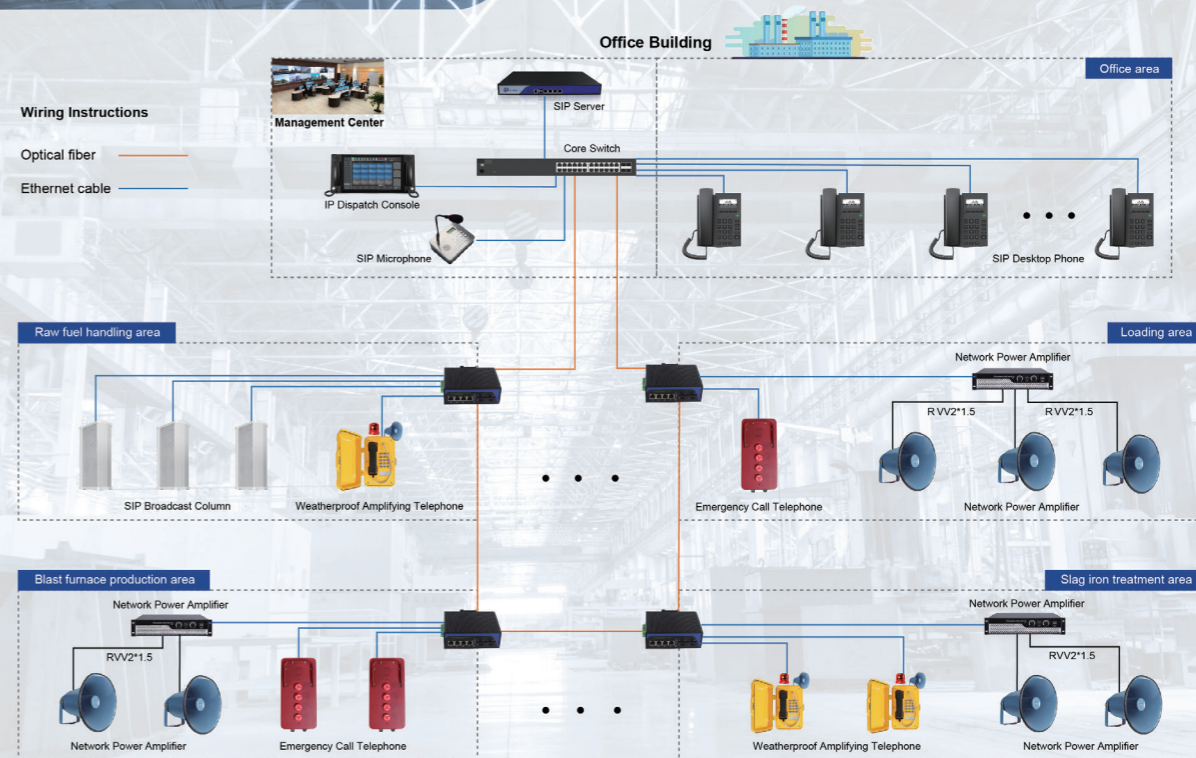
A visual dispatch station and communication telephones are set up in the electrical room as a command system to conduct unified management of the production line intercom terminals. The intercom terminals can be connected to an external digital power amplifier to broadcast emergency broadcasts when an emergency occurs.

Security Solution for Plants and Manufacturing Facilities

Wiring Instructions

Optical fiber

Ethernet cable



★ Security Solution for Nuclear Power Plants



A nuclear power plant in Taipingling, Huizhou



A nuclear power plant in Turkey



A nuclear power plant in Ukraine

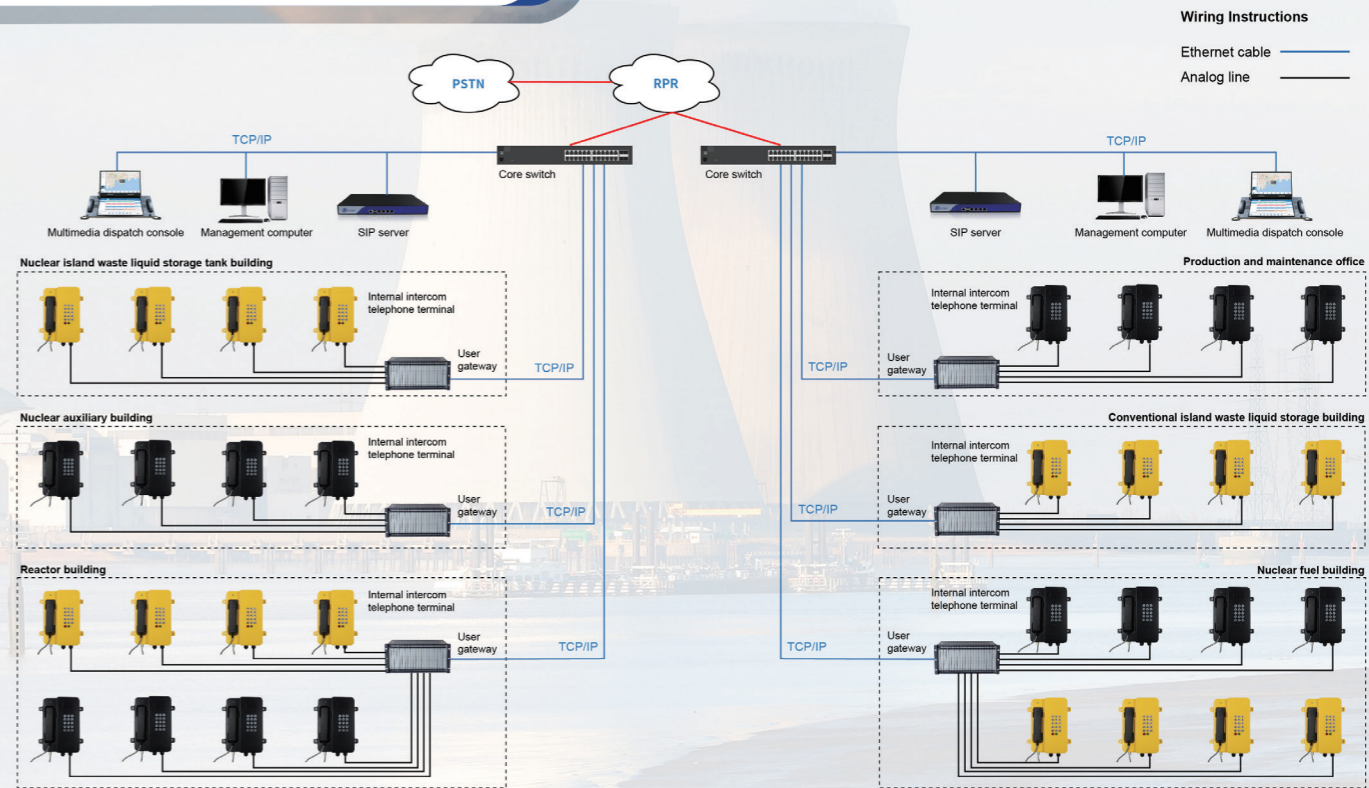


A nuclear power plant in Ukraine

★ Solution

- Automatic and emergency telephone systems, providing general voice communications over a wide range and connecting to required off-site communications links;
- The system consists of program-controlled switches, distribution frames, telephones and related equipment. It is a non-safety-related system. The system provides full-duplex voice communications between all stations, with call forwarding. The emergency telephone system is used as a backup communication link between important positions in the power plant and can transfer calls;
- The system is smaller in scale than the automatic telephone system. System telephones are mainly installed in the main control room, remote shutdown operation room, technical support center and other key operating areas.

Security Solution for Nuclear Power Plants



★ Communication Solution for Wind Power Plants



Wind power station in Shanxi

Wind power station in Inner Mongolia



Wind power station in Inner Mongolia

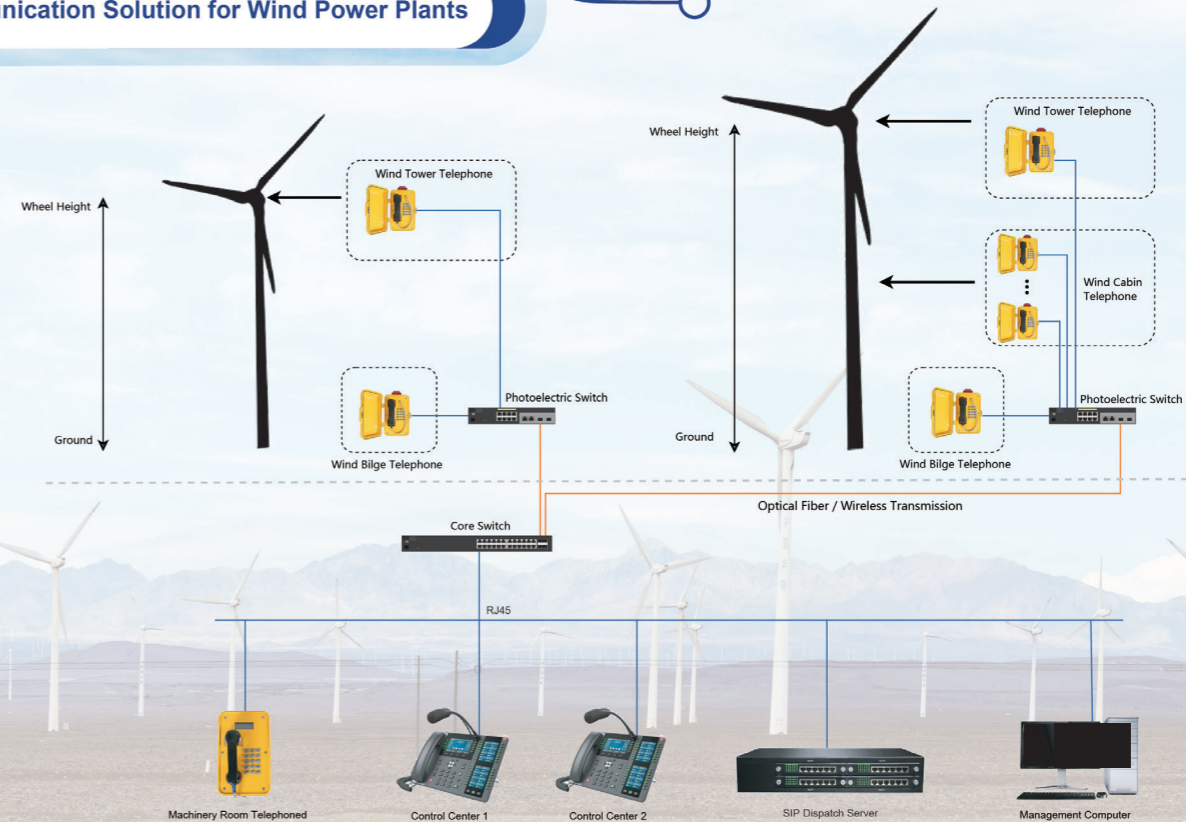
Wind power station in Inner Mongolia



★ Solution

- The system equipment comes with a call recording function; there is no need to purchase expensive recording equipment.
- Extensible to support conference calls, call transfer, voice messages, three-way calls and other functions
- Combined with the network, install IP voice intercom terminals in each wind turbine to facilitate internal communication when maintaining and overhauling equipment.
- High-quality service: International standard SIP protocol is not affected by distance or environment. Users can enjoy carrier-grade voice services. When a wind turbine fails, staff can troubleshoot it in time.

Communication Solution for Wind Power Plants



Communication Solution for Highways

The construction of highway will use new generation standards such as informatization, intelligence, and digitalization as the construction standards for highway. The new IP intercom broadcasting system all adopts the digital transmission of Ethernet has no interference and no attenuation. It can fully utilize the unified internal communication network of the road section to realize the main control of intercom, broadcast and alarm for various departments. Dry transmission does not occupy valuable main fiber resources alone. In some toll booths that do not have direct Ethernet access, you only need to lead the network from the station to the toll booth.

Project Reference



Highway in England



Highway in England



Highway in European



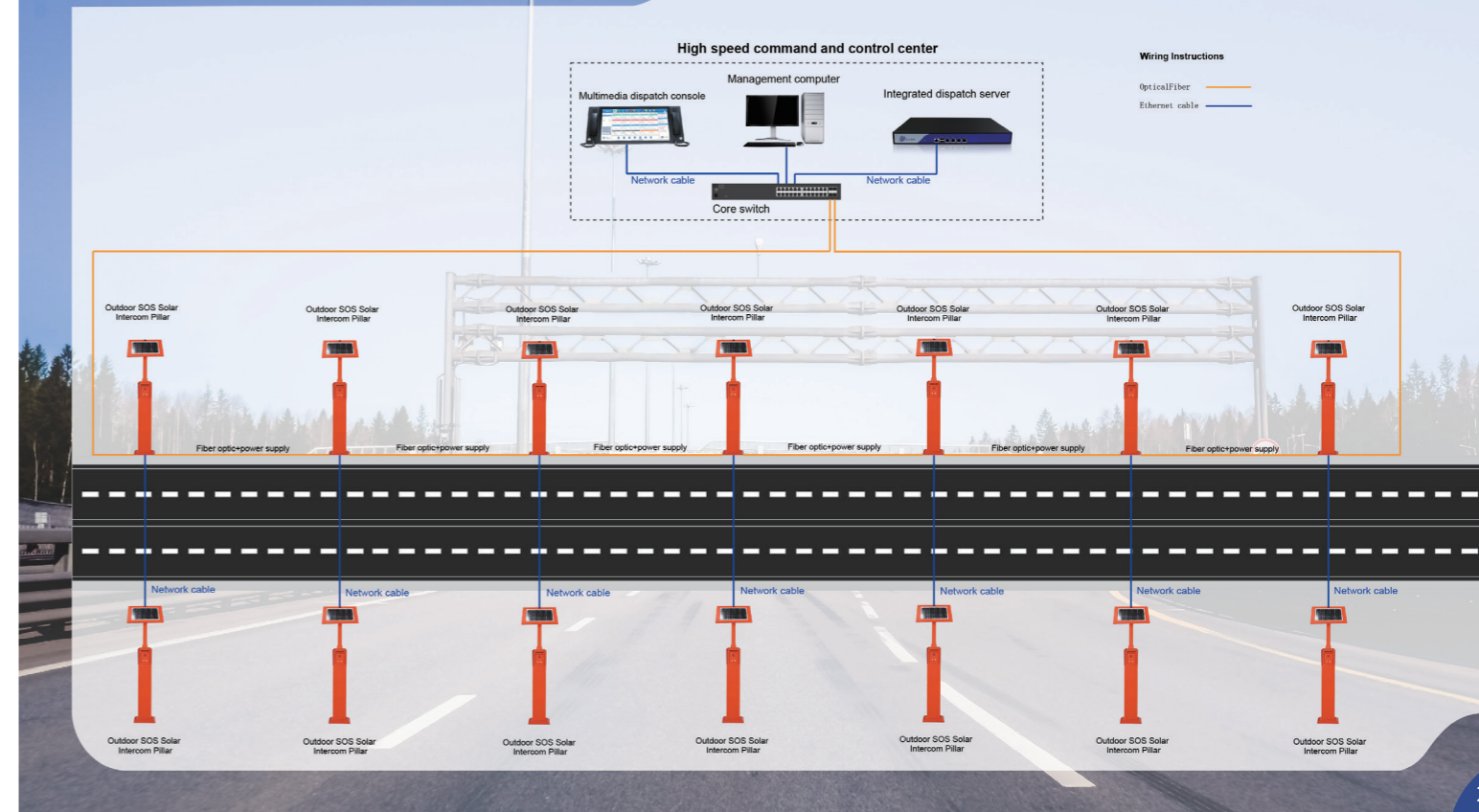
Highway in Australia



Highway in Dubai

- Set up network help terminals on highways to facilitate drivers and passengers to ask for help with one click when they have difficulties;
- Toll stations can call each other and talk to each other. When the management center calls, the management center takes priority and the mutual intercom will be interrupted. Forced calls can be set;
- High-speed monitoring linkage. IP broadcast terminals are installed on the road. When illegal parking or accidents are discovered, information can be released to the accident point through the monitoring center to organize and divert vehicles;
- The system structure is simple and the networking is convenient. Just connect the equipment to the computer network to form a powerful digital communication system, which can realize computer network, Emergency help, background music, video surveillance, and public broadcasting multiple networks in one.

Communication Solution for Highways



Communication Solution for Tunnel

The J&R broadcasting system can be organically combined with the emergency telephone system, and the tunnel emergency telephone system and the tunnel broadcasting system can be organically combined. The same console, the same signaling system, and the same communication cable can be used to achieve unified control of the two systems. In this way it not only simplifies the system and saves investment, but also effectively improves the work efficiency of the monitoring room of the team road management office. When an emergency occurs in the tunnel, drivers and passengers can call the highway management department for help through the emergency phone, and the highway management department can directly evacuate the people in the tunnel through emergency broadcasts.

Project Reference



Highway tunnel in Croatia



Highway tunnel in Iceland



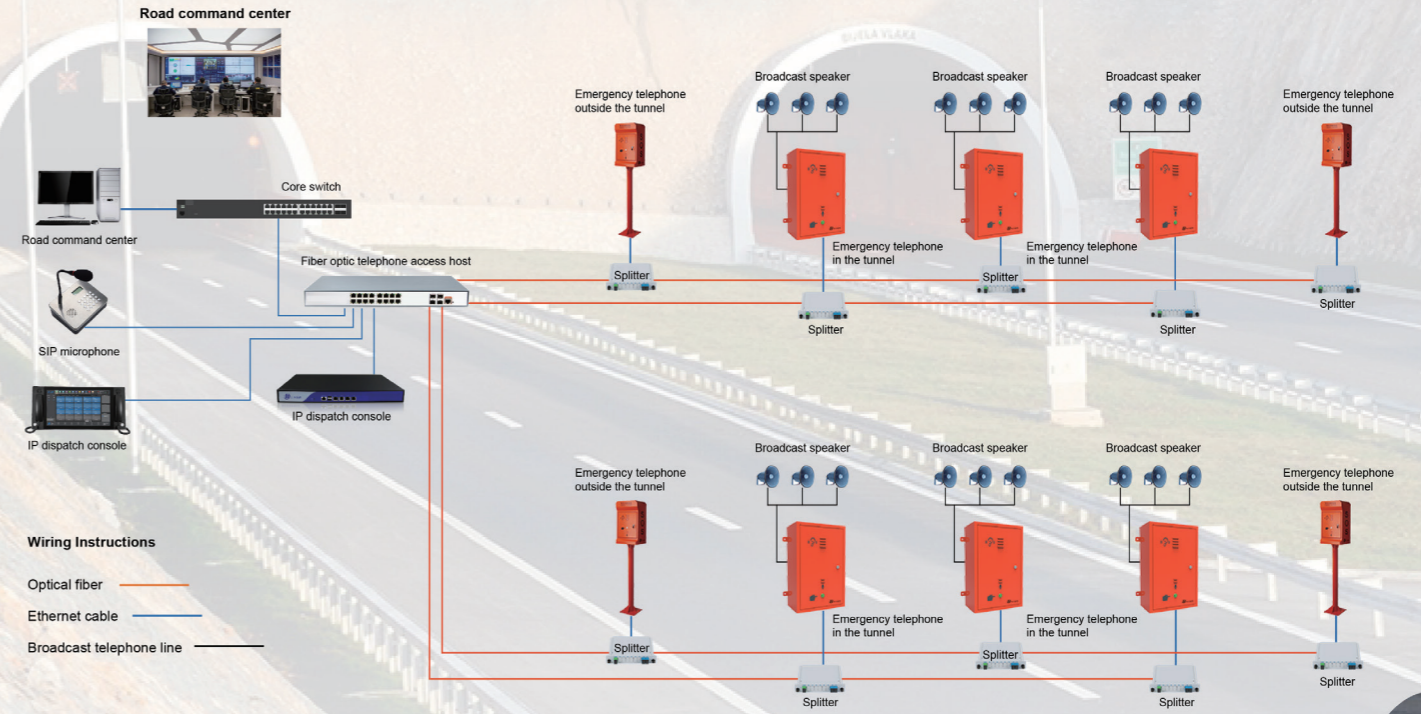
Highway tunnel in China



Highway tunnel in Chongqing, Gaoteng

- The power amplification of this broadcast system uses near-end amplification, which is a significant feature. It can be transmitted and controlled through the access network, truly realizing remote operation of the broadcast system;
- The system adopts caller control. After the console broadcast is released, the system can automatically enter the standby working state to reduce energy consumption;
- The broadcasting system can program-control fixed-point, fixed-film, and full-line calls, the voice is clear and loud during broadcasting, and there is no feedback howling;
- This broadcasting system is simple to operate. The system host and emergency telephone system are integrated into a main control machine. When the broadcast system needs to work, only simple operations are required on the main control machine. A microphone or a duty telephone can be used for broadcasting.

Communication Solution for Tunnel



Communication Solution for Utility Tunnel

Various types of pipelines in the utility tunnels are complex and have long laying distances. In such an environment, data transmission is easily lost or interfered. J&R has been serving SOS, road tunnels, railways (subways), mines, and petrochemicals, metallurgy, energy and electricity, ports, shipbuilding and other fields internationally and domestically for many years. With experience in the development and production, we have specially developed a highly reliable integrated pipe gallery fixed emergency communication system with fiber optic cable hybrid networking for pipe corridors.

Project Reference



An underground pipe gallery on Honglian Road, Guangzhou



An underground pipe gallery in Dapeng District, Shenzhen



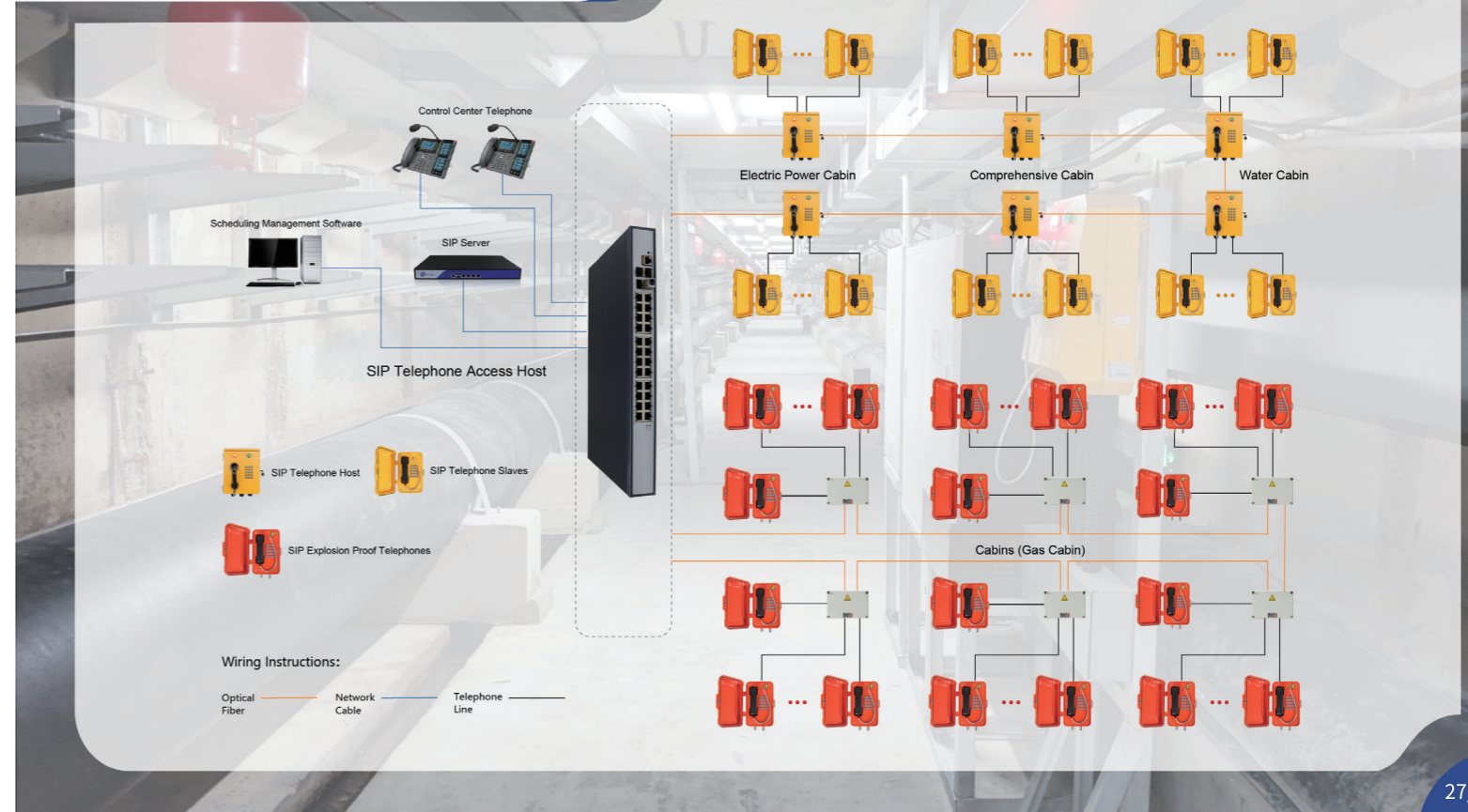
An underground pipe gallery in Guangming District, Shenzhen



An underground pipe gallery in Binzhou City, Shandong Province

- This system integrates soft switching, management and dispatching, outside line outgoing calls, digital recording, call positioning, broadcasting and other functions;
- The integrated pipeline corridor fixed emergency communication system developed by J&R can achieve seamless connection with the VOIP handheld wireless video intercom system;
- Based on the on-site environment, provide users with audio intercom, video intercom, SIP call, call recording, and data storage and traceability management;
- Real-time monitoring, remote assistance, precise positioning and other on-site communication and management methods during the mobile process, thus forming an overall comprehensive solution that combines fixed communication, wireless communication and on-site management and control.

Communication Solution for Utility Tunnel



★ Communication Solution for Cranes



Crane at a port in Luoyu, Fujian

Ship unloader at Fangcheng Port



Dock in America

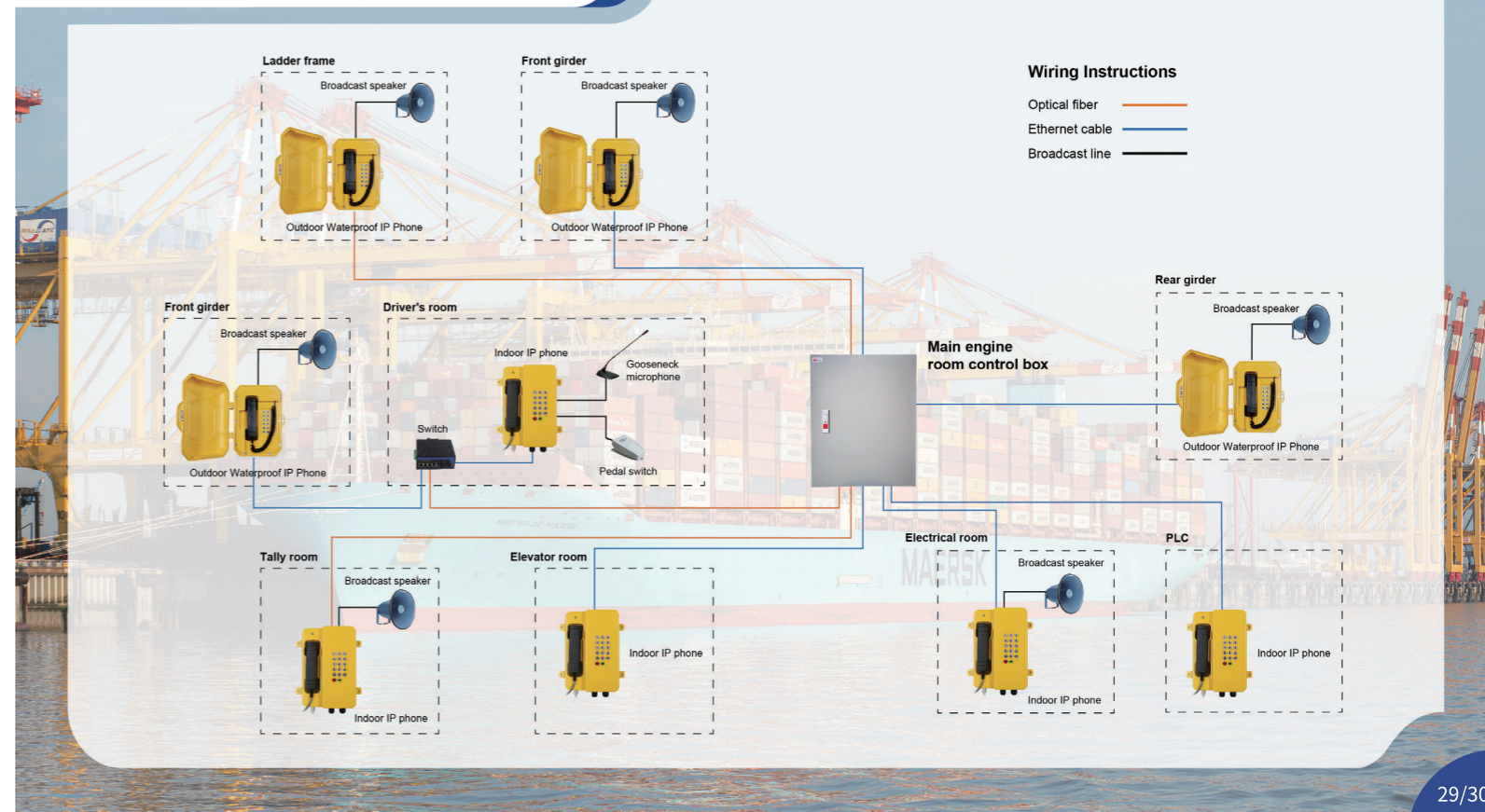
Dock in America



★ Solution

- **Centralized command and control center:** The centralized command and control center is the core of the system, providing real-time monitoring, coordination and management of emergency communications. The center integrates various communication channels, including voice, data and alerts, ensuring effective communications and response coordination;
- **Emergency call points:** Emergency call points are set up at strategic locations on the dock to provide individuals with a direct communication link to report emergencies or request assistance. These call points are equipped with two-way voice communications and may include additional features such as announcements, alarms, and panic buttons;
- **Mass notification systems:** Our solutions include mass broadcast notification systems that rapidly disseminate emergency alerts, instructions and updates to terminal personnel and visitors.

Communication Solution for Cranes



★ Communication Solution for Pharmaceutical Plants, Clean Rooms



Clean Room in South Korea



Clean Room in Switzerland



Clean Room in Russia



Clean Room in Russia

★ Solution

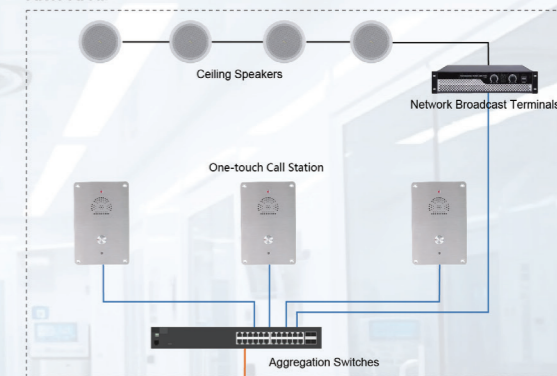
- The telephone is equipped with an acoustic echo processing system, so you can enjoy high-quality calls whether in public areas or noisy environments.
- Based on the on-site environment, provide users with audio intercom, video linkage, SIP calls, call recording, and data storage traceability management;
- Install flush mounting emergency telephone communication equipment in the clean room. You can quickly call the control center by dialing the preset emergency number.

Communication Solution for Pharmaceutical Plants, Clean Rooms

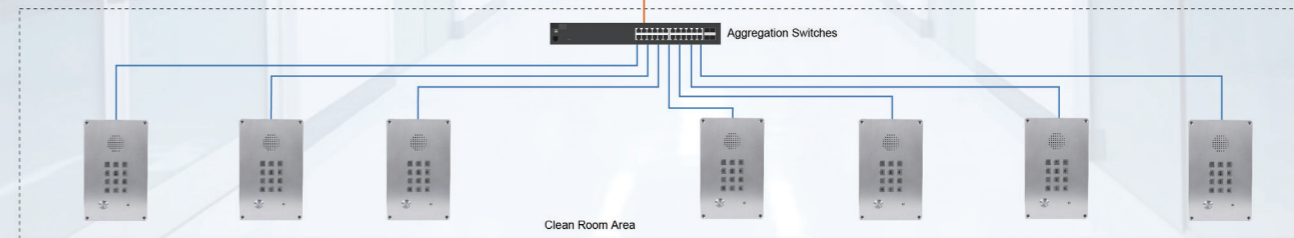
Control Room



Aisle Area



Clean Room Area



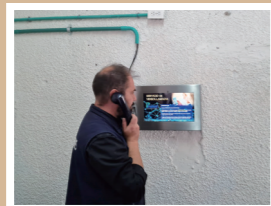
Communication Solution for Prisons

Due to the particularity of the industry, the prison system has formed a relatively independent group. In order to ensure the normal progress of work and emergency response to emergencies, the prison system has special and strict requirements on communication tools, and the construction of prison information needs to be further strengthened. While it is convenient for inmates to communicate with their relatives, it greatly reduces the work pressure and burden of prison guards, accurately and real-time monitors the ideological status of inmates during the reform process, and greatly improves the level of supervision.

Project Reference



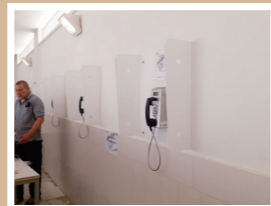
Correctional Institution in Hong Kong



Prison in Columbia



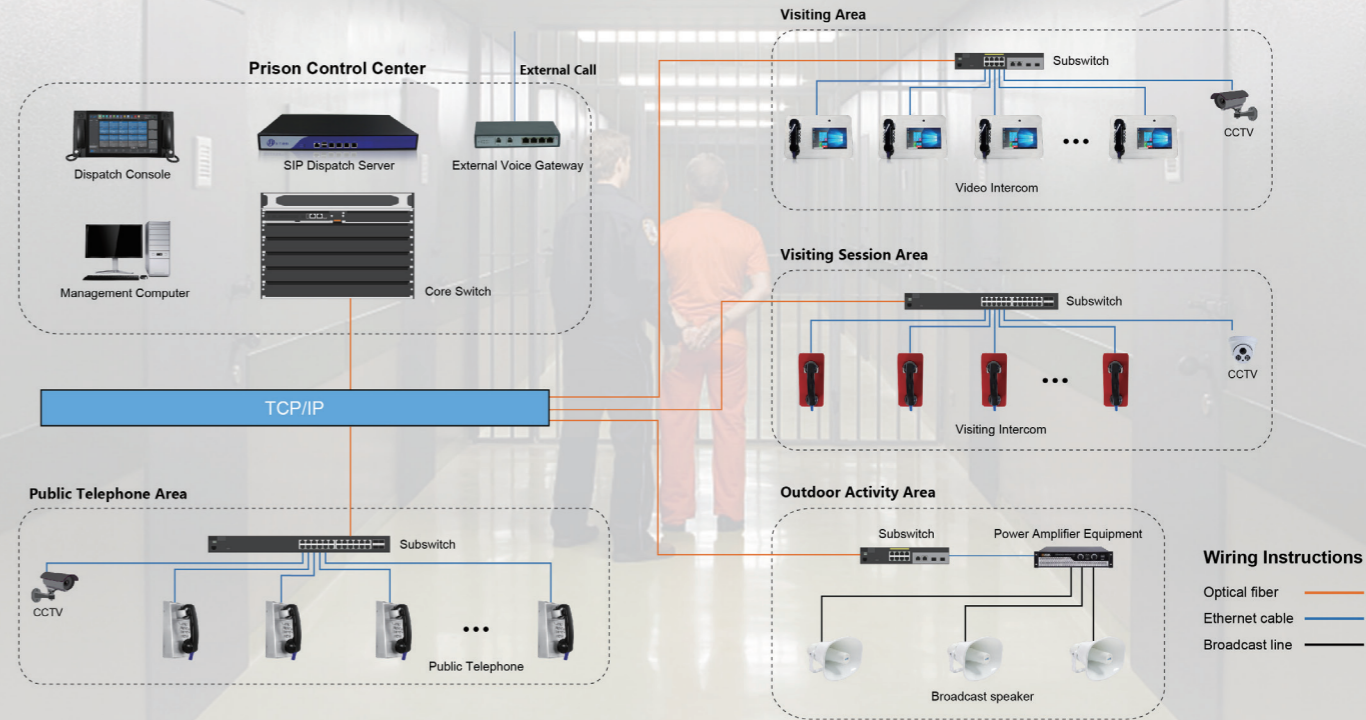
Correctional Institution in Tai Tam, Hong Kong (Smart Prison)



Prison in Israeli

- This system integrates the functions of softswitch, management and scheduling, outside line outgoing, digital recording, call location, and broadcasting, etc.
- It realizes the intercommunication of multiple monitoring intercom systems, and at the same time can initiate audio and video calls to any monitoring intercom terminal through a unified dispatching platform.
- The main duty center host or duty terminal can broadcast and play music in the entire area or in zones such as production workshops, canteens, public areas, outdoor activities, etc.
- It integrates wired and wireless communication resources, integrates audio, video, and data communication methods, realizes daily communication and dispatching command, ensures the safety, reliability and smoothness of emergency response communication, and guarantees that command work can be carried out smoothly in emergency situations.

Communication Solution for Prisons



Communication Solution for Campuses / Hospitals

The campus communication system solution is constantly improved with the development of society and the advancement of science and technology. Its role is not only to strengthen the information exchange within the school, but also to improve the communication efficiency and collaboration level between teachers and students. Therefore, it is very important to establish an efficient, convenient and safe campus communication system. The "one-button" emergency alarm intercom system solution for Safe Campus promotes the development of security informatization in the education industry, uses integrated communication command technology for campus security management, and realizes smart campus operations.

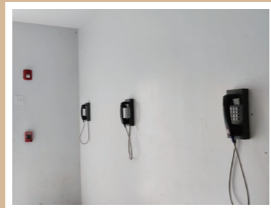
Project Reference



Campus in Australia



Campus Public Telephone Station in Malaysia



Summer Camp in the USA

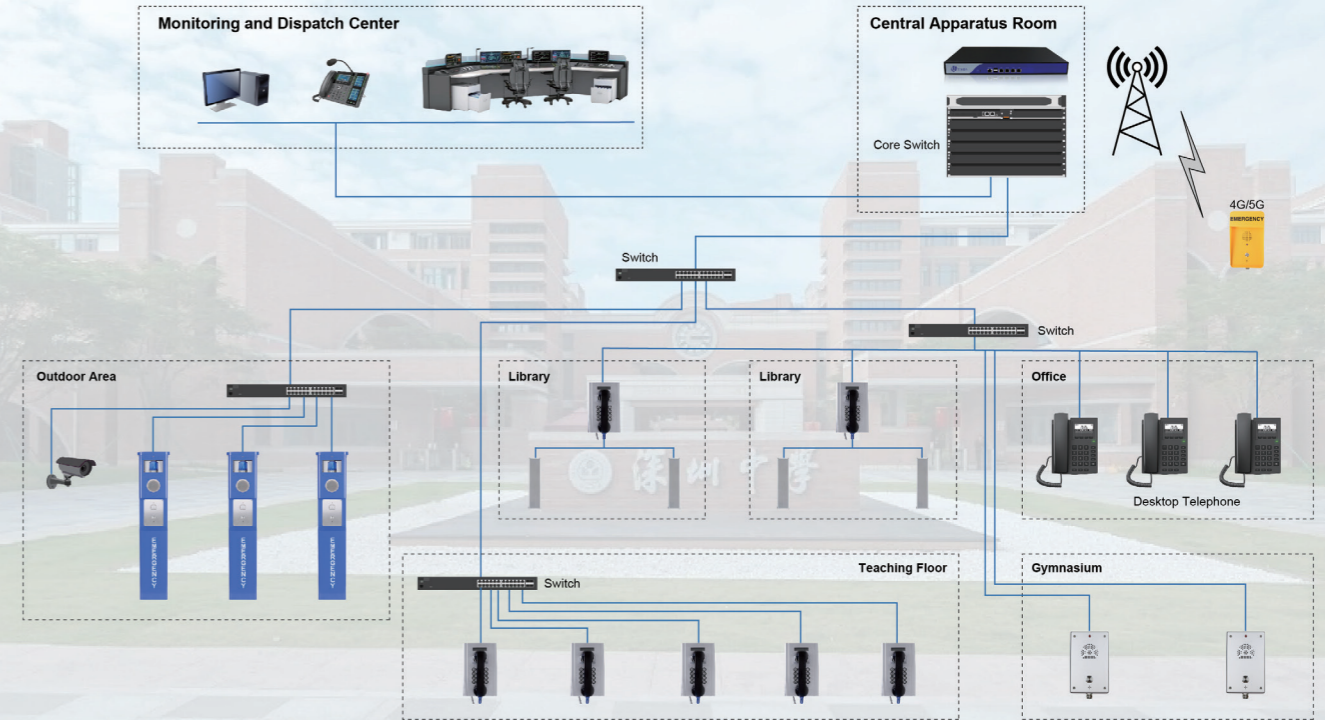


Armed Forces Hospital in Saudi Arabian

Based on IP network high-definition audio and video communication technology, the solution builds a student-centered help intercom system that covers all campus activity areas.

The system realizes the integration of emergency intercom, emergency broadcast, emergency command, telephone, monitoring and control center communication system, provides fast and effective services for students' various alarm requests, protects students' life safety, and helps students solve safety problems. Maximize safety management and emergency response efficiency for the education industry.

Communication Solution for Campuses / Hospitals



Smart City Security Solutions

The public safety of the scenic area has been widely concerned. When the infrastructure is limited, it is usually costly to provide a reliable and effective communication solution. J&R Technology Ltd broadcast intercom system uses TCP/IP network technology to transmit audio signals in the form of standard IP packets in the local area network. It is a two-way audio sound reinforcement system for pure digital transmission. The equipment of this system is easy to use and easy to install and expand.

Project Reference



Shopping mall in Chile



Phoenix Mountain Forest Park in Shenzhen



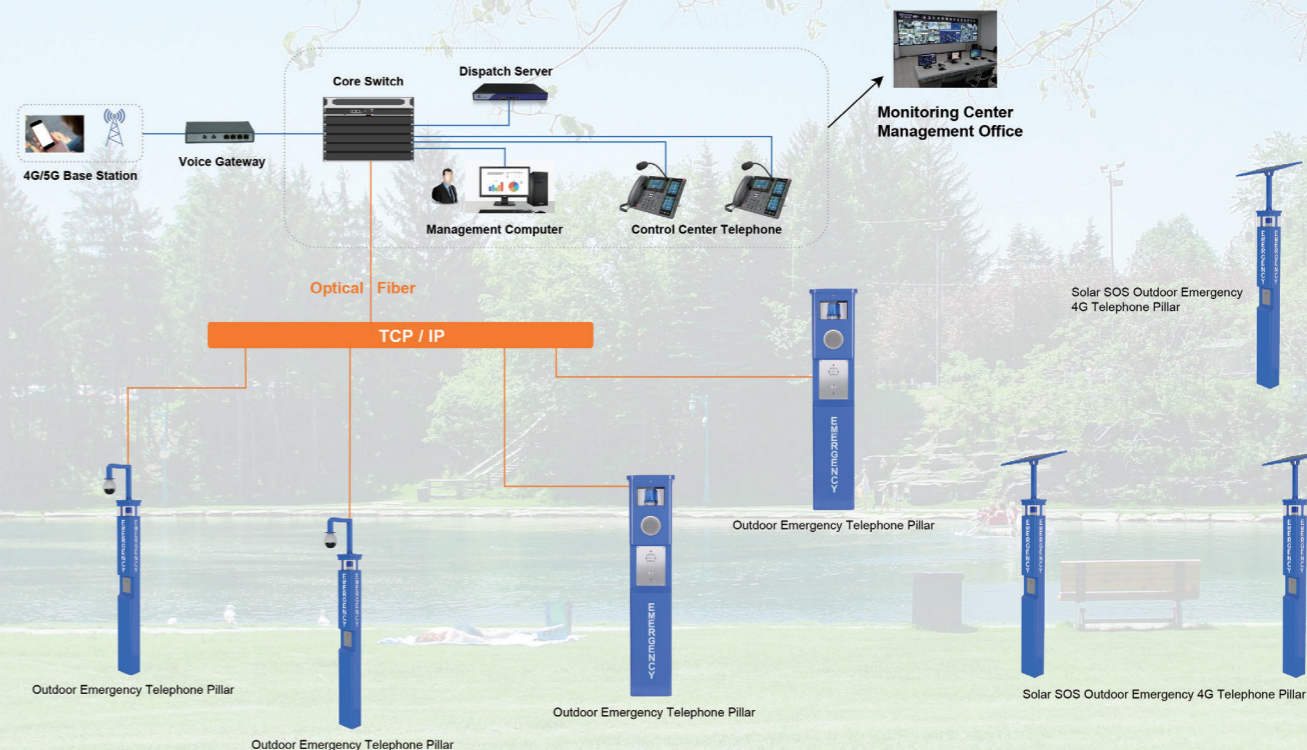
Scenic Park in Thailand



Scenic Park in France

- It can use the system to implement functions such as broadcast notification, paging, safety reminder, shouting to drive away, help alarm, voice intercom, playing background music, etc.
- According to the planning and management needs of scenic spots, it is necessary to divide each scenic spot and sightseeing route into multiple broadcast areas in order to achieve independent zone control.
- The entire system mainly consists of the central apparatus room of the scenic spot, the help alarm point, the ordinary broadcast point and the transmission line.
- According to the management needs of the scenic spot, emergency help alarm terminals are installed at road intersections, lakesides and trails throughout the park, so that when tourists encounter difficulties, they can use the help alarm terminals to realize rapid alarm function.

Smart City Security Solutions



★ 4G Communication Solution



Highway in Australia

Waterside Rescue Service Station in Spain



Parking Lot in the USA

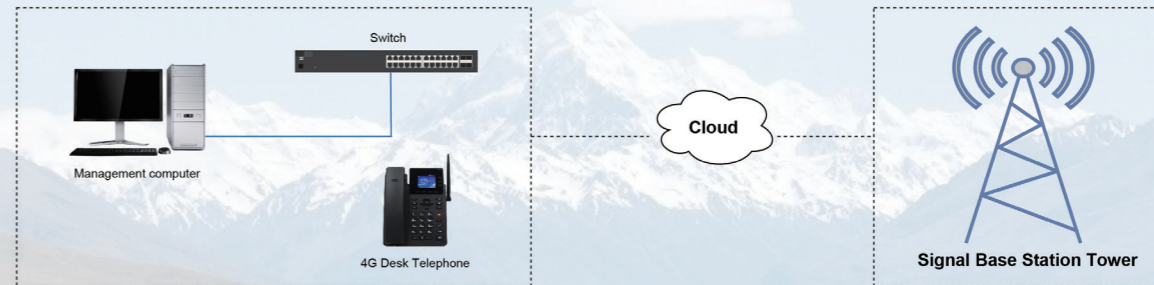
Roadside in Australia



★ Solution

- The telephone terminal can choose wireless GSM/4G/LTE with solar power supply, and built-in amplifier to amplify the volume for noise-free calls;
- The telephone is equipped with an acoustic echo processing system, so you can enjoy high-quality calls whether in public areas or noisy environments;
- 4G wireless transmission, the signal is clear and stable, not affected by rain and fog, only one data card is required, suitable for outdoors, highways, mountains, forests and other areas;
- It is less affected by the environment and geographical space, and there is no need to dig the ground for wiring. As long as there is a 4G network signal, the receiving terminal can be installed. In the same system, the terminal can be installed in any corner, truly enabling communication within ten miles.

4G Communication Solution



★ Communication Solution for Mining



Underground Gold and Silver Mine in Mexico

Coal Mine in Switzerland



Coal Mine in Belgium

Coal Mine in the Philippines



★ Solution

The design of the mine communication system scheme should be based on the principle of one-time planning of the communication network, step-by-step implementation, and long-term benefits. Advanced and complete equipment, flexible and reliable network structure should be fully adopted to create a short-term network that can meet the mine's daily office work and production scheduling. A modern intelligent mine communication system for long-term needs.

In the construction of the system, the wireless communication, dispatching station, mine point dispatching telephone and voice gateway management platform together form an integrated dispatching communication network structure, with independent and perfect hardware and software detection fault measures, once a fault occurs, it can be automatically isolated, and Automatic positioning diagnosis. With active and standby redundancy, decentralized control, software fault tolerance and other technologies, it can survive independently and be clearly separated in terms of structure, function, business and equipment management, so as to effectively guarantee the reliable operation of equipment.

Communication Solution for Mining

